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1 of 2

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(54) Title CRYSTAL COMPRISING HUMAN IMMUNODEFICIENCY VIRUS ENVELOPE
 GLYCOPROTEIN gp120, COMPOUNDS INHIBITING CD4-gp120 INTERACTION,
 COMPOUNDS INHIBITING CHEMOKINE RECEPTOR-gp120 INTERACTION,
 MIMICS OF CD4 AND gp120 VARIANTS

No Image Available.

(57) Abstract

The subject invention provides a crystal suitable for X-ray diffraction comprising a polypeptide having an amino acid sequence of a portion of a Human Immunodeficiency Virus envelope glycoprotein gp120. The subject invention also provides the above-described crystals, wherein the crystal is arranged in a space group P2221, so as to form a unit cell of dimensions $a=71.6 \text{ \AA}$, $b=88.1 \text{ \AA}$, $c=196.7 \text{ \AA}$, and which effectively diffracts X-rays for determination of the atomic coordinates of the gp120 to a resolution of 2.5 \AA or better. The subject invention additionally provides compounds inhibiting the CD4-gp 120 interaction, compounds inhibiting chemokine receptor-gp120 interaction, mimics of CD4, gp120 variants and uses thereof.



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1 of 2